

CLAIMS:

1. A lamp system having
 - a gas-discharge lamp with a color point in the green-blue,
 - an LED with a color point in the yellow-red, and
 - an optical component for additive mixing of the light from the gas-discharge5 lamp and the LED.
2. A lamp system as claimed in Claim 1, characterized in that the gas-discharge lamp is a fluorescent lamp.
- 10 3. A lamp system as claimed in Claim 2, characterized in that the fluorescent lamp is a low-pressure mercury-vapor lamp, on which in particular the phosphor BAM is applied for the generation of blue light and/or the phosphor CAT is applied for the generation of green light.
- 15 4. A lamp system as claimed in Claim 1, characterized in that the LED is an inorganic LED, in particular a red-yellow-emitting AlGaInP LED or a red-emitting AlGaAs LED.
- 20 5. A lamp system as claimed in Claim 1, characterized in that the lamp system is provided with a control component for controlling the color point of the lamp system.
6. A lamp system as claimed in Claim 5, characterized in that the control component is designed to control the color point of the lamp system by controlling the power of the gas-discharge lamp and/or the LED.
- 25 7. A lamp system as claimed in Claim 5, characterized in that the control component is designed to control the color point of the lamp system by controlling the mixing characteristics of the optical component.

8. A method of illumination comprising the following stages:
- generation of light with a color point in the green-blue by means of a gas-discharge lamp,
 - generation of light with a color point in the yellow-red by means of an LED,
- 5 and
- additive mixing of the light from the gas-discharge lamp and the LED by means of an optical component.